

PET/GF – UD tape

Material data sheet

Description

Unidirectional continuous fiber-reinforced tape (UD tape) based on polyethylene terephthalate and glass fibers.

Properties¹

Physical properties	Value	Unit	Measurement method
Density	1.85	g/cm ³	DIN EN ISO 1183
Thickness	0.145	mm	
Width	50	mm	
Fiber mass fraction	60	wt	Internal method
Fiber volume fraction	45	vol	Internal method
Surface weight	344	g/m ²	
Mechanical properties			
Tensile strength 0°	1190	MPa	DIN EN ISO 527 [*]
Tensile modulus of elasticity 0°	44.5	GPa	DIN EN ISO 527 [*]
Elongation at break 0°	-	%	DIN EN ISO 527 [*]
¹ Measured properties that are not considered specifications			
[*] Measured on tape material [UD50_320]			

The material is a research product and is not commercially available. All information is provided without guarantee.

Fraunhofer IMWS | Walter-Hülse-Straße 1 | 06120 Halle (Saale) | <https://www.imws.fraunhofer.de> | E-mail: ivonne.jahn@imws.fraunhofer.de